

ART 24 ABANT

Patent claims

1. Method of producing foamed slag in an arc furnace by  
the measured blowing of a carbon carrier by means of  
5 an oxygen carrier into the boundary layer between  
the slag layer and the molten metal and/or into the  
zones of the slag layer and/or of the molten metal  
that are adjacent to the boundary layer, in an  
amount such that the arcs are enveloped at least  
10 partially by foamed slag layer, which method is  
characterised in that finely divided titanium  
carrier having a mean particle size  $d_{50}$  of from 0.001  
to 1.0 mm and a grain size of up to 5 mm is blown  
in, the titanium carrier being introduced in  
15 admixture with the carbon carrier and the content of  
titanium carrier, based on the carbon content, being  
from 1 to 80 %.
2. Method according to claim 1, characterised in that  
20 the titanium carrier has a content of titanium  
dioxide of from 5 to 100 %, preferably from 20 to  
80 %.
3. Method according to claim 1 or 2, characterised in  
25 that the titanium carrier has a content of iron  
oxide of up to 95 wt.%, preferably from 20 to  
80 wt.%.
4. Method according to one or more of claims 1 to 3,  
30 characterised in that the titanium carrier contains  
one or more of the components calcium oxide, silicon  
oxide, aluminium oxide and magnesium oxide.